PATENT ABSTRACTS OF JAPAN

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(54) METHOD AND DEVICE FOR GENERATING SEQUENCE INFORMATION

(57)Abstract:

PROBLEM TO BE SOLVED: To efficiently generate a sequence suitable for the desired reference by specifying the characteristics of the desired sequence corresponding to the values of attributes of items of the sequence, formulating the generation of the desired sequence as a constraint sufficiency problem while defining the respective items as variables and the characteristics specified concerning the desired sequence as constraints, and solving this problem.

SOLUTION: A data base registering data showing the attributes of plural items is prepared. Besides, the characteristics of the desired sequence are specified corresponding to a request to the value of the attribute of any item or variation of the value in the desired sequence. While defining the respective items in this sequence as variables and the specified characteristics as constraints, the generation of the desired sequence is formulated as the constraint sufficiency problem. Then, this constraint sufficiency problem is solved by constraint sufficiency problem programming techniques. The sequence of a piece of music generated by using such a method includes the title, artist, play time, tempo, voice type of each piece of music and type of musical instruments.